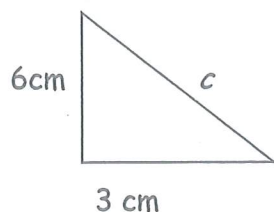


The Pythagorean Theorem Assignment

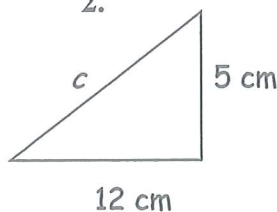
Name: _____ Class: _____ Date: _____

Find the length of the missing side in the following examples. Round answers to the nearest ^{hundredth}, if necessary. Please do and show all work on a separate piece of loose leaf!

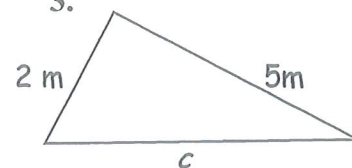
1.



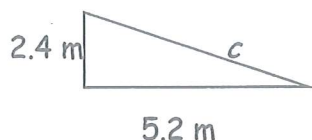
2.



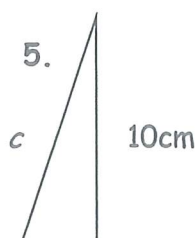
3.



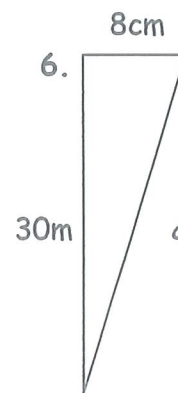
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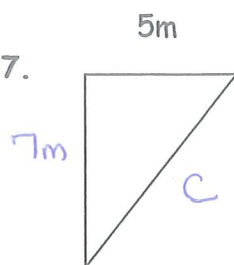
5.



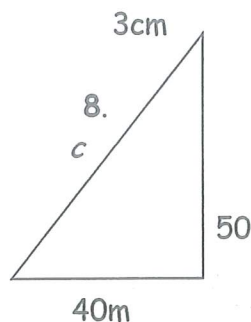
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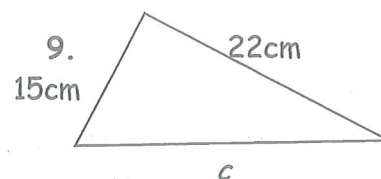
7.



8.



9.



What is the length of the hypotenuse, c , of the following right angle triangles? Show all work on a separate piece of loose leaf!

10. $a = 3$; $b = 4$; $c = ?$

15. $a = 8$; $b = 10$; $c = ?$

11. $a = 6$; $b = 8$; $c = ?$

16. $a = 15$; $b = 17$; $c = ?$

12. $a = 12$; $b = 5$; $c = ?$

17. $a = 40$; $b = 50$; $c = ?$

13. $a = 9$; $b = 12$; $c = ?$

18. $a = 4$; $b = 2$; $c = ?$

14. $a = 15$; $b = 20$; $c = ?$

19. $a = 1.2$; $b = 3.5$; $c = ?$

20. A ladder is leaning against the side of a 10m house. If the base of the ladder is 3m away from the house, how tall is the ladder? Please draw a diagram and show all work.